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SWING MITO 2 RS L

Inflation/take-off

Type designation SWING Mito 2 RS L Type test reference no DHV GS-01-2677-22

Holder of certification Swing Flugsportgeräte GmbH Manufacturer Swing Flugsportgeräte GmbH

Classification A Winch towing Yes Number of seats min / max 1/1

> Accelerator Yes Trimmers No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (100KG)

Test pilots



Mario Eder No release

Sebastian Mackrodt

No release Α

Rising behaviour Smooth, easy and constant rising Smooth, easy and constant rising Special take off technique required No

Special landing technique required No

<u>Speeds in straight flight</u>

Trim speed more than 30 km/h Yes Yes Speed range using the controls larger than 10 km/h Yes Yes

Minimum speed Less than 25 km/h Less than 25 km/h

Control movement Symmetric control pressure Increasing

> Symmetric control travel Greater than 60 cm Greater than 65 cm

Pitch stability exiting accelerated flight A Dive forward angle on exit Dive forward less than 30°

Collapse occurs No

Pitch stability operating controls during accelerated flight Collapse occurs No

Roll stability and damping A A Oscillations Reducing Reducing

Stability in gentle spirals A

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive A

Initial response of glider (first 180°) Immediate reduction of rate of turn Immediate reduction of rate of turn Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of Spontaneous exit (g force decreasing, turn decreasing) rate of turn decreasing) Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recovery

Symmetric front collapse

Cascade occurs No Folding lines used no Unaccelerated collapse (at least 50 % chord) A Α Entry Rocking back less than 45° Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Change of course Keeping course Keeping course Cascade occurs No Folding lines used no Accelerated collapse (at least 50 % chord) A Entry Rocking back less than 45° Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Keeping course Change of course Keeping course Cascade occurs No Folding lines used no no Exiting deep stall (parachutal stall) A Deep stall achieved Yes Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s **Dive forward angle on exit** Dive forward 0° to 30° Dive forward 0° to 30° Change of course Changing course less than 45° Changing course less than 45° Cascade occurs No High angle of attack recovery A Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s Cascade occurs No Recovery from a developed full stall A Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Collapse No collapse No collapse Cascade occurs (other than collapses) No Rocking back Less than 45° Less than 45° Line tension Most lines tight Most lines tight Small asymmetric collapse A Change of course until re-inflation Less than 90° Less than 90° Maximum dive forward or roll angle Dive or roll angle 0° to 15° Dive or roll angle 0° to 15° Re-inflation behaviour Spontaneous re-inflation Spontaneous re-inflation Total change of course Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of collapsed with a spontaneous re inflation) cells with a spontaneous re inflation) Twist occurs No Nο Cascade occurs No Folding lines used no <u>Large asymmetric collapse</u> A Change of course until re-inflation Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation Spontaneous re-inflation Total change of course Less than 360° Less than 360° **Collapse on the opposite side occurs** No (or only a small number of collapsed cells with a spontaneous re inflation) No (or only a small number of collapsed cells with a spontaneous re inflation) Twist occurs No Nο Cascade occurs No Folding lines used no Small asymmetric collapse accelerated A Change of course until re-inflation Less than 90° Less than 90° Maximum dive forward or roll angle Dive or roll angle 0° to 15° Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation Spontaneous re-inflation Total change of course Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of collapsed with a spontaneous re inflation) cells with a spontaneous re inflation) Twist occurs No Cascade occurs No No Folding lines used no nο Large asymmetric collapse accelerated A Change of course until re-inflation Less than 90° Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or roll angle 15° to 45° Re-inflation behaviour Spontaneous re-inflation Spontaneous re-inflation Total change of course Less than 360° Less than 360°

Collapse on the opposite side occurs No (or only a small number of collapsed cells

Twist occurs No
Cascade occurs No

Folding lines used no

with a spontaneous re inflation)

Entry Rocking back less than 45°

Recovery Spontaneous in less than 3 s

Dive forward angle on exit Dive forward 0° to 30°

Change of course Keeping course

Rocking back less than 45°

Dive forward 0° to 30°

Keeping course

Spontaneous in less than 3 s

No (or only a small number of collapsed

cells with a spontaneous re inflation)

No

no

<u>Directional control with a maintained</u> asymmetric collapse	A	Α
Able to keep course	e Yes	Yes
180° turn away from the collapsed side possible in	ı Yes	Yes
10 s	5	
Amount of control range between turn and stall or	r More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
Spir	ı travei	control travel
Trim speed spin tendency	A	A
Spin occurs	s No	No
Low speed spin tendency	A	A
Spin occurs	s No	No.
Spin occurs		110
Recovery from a developed spin	A	A
Spin rotation angle after release	Ctons eninning in loss than 000	Stops spinning in less than 90°
Cascade occurs		No
cascade occurs	3 110	No
B-line stall	A	A
Change of course before release	Changing course less than 450	Changing course less than 45°
	Remains stable with straight span	Remains stable with straight span
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
Cascade occurs		No.
<u>Big ears</u>	A	Α
Entry procedure	standard technique	Dedicated controls
Behaviour during big ears	•	Stable flight
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	t Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight	A	A
Entry procedure	Standard technique	Dedicated controls
Behaviour during big ears	s Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	t Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the		Stable flight
accelerator while maintaining big ears	5	
Alternative means of directional control	A	A
180° turn achievable in 20 s	s Yes	Yes
Stall or spin occurs		No
Any other flight procedure and/or configuration described in the user's manual		
No other flight procedure or configuration described in the user's manual		

No other flight procedure or configuration described in the user's manual